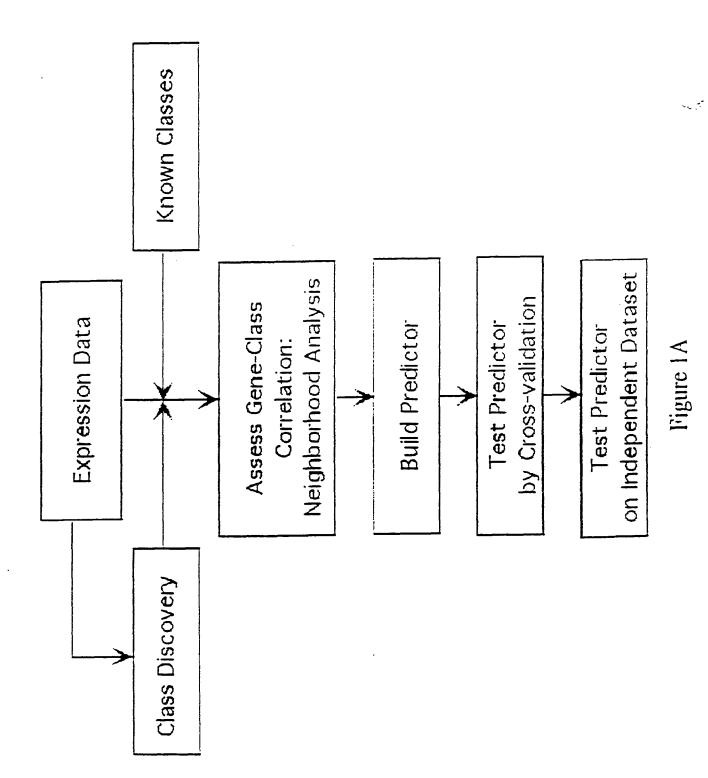
Docket No.: Title: Inventors: 2825.1018-010

"Methods for Classifying ..."

Todd R. Golub, et al.



Docket No.: 2825.1018-010

"Methods for Classifying ... ntors:

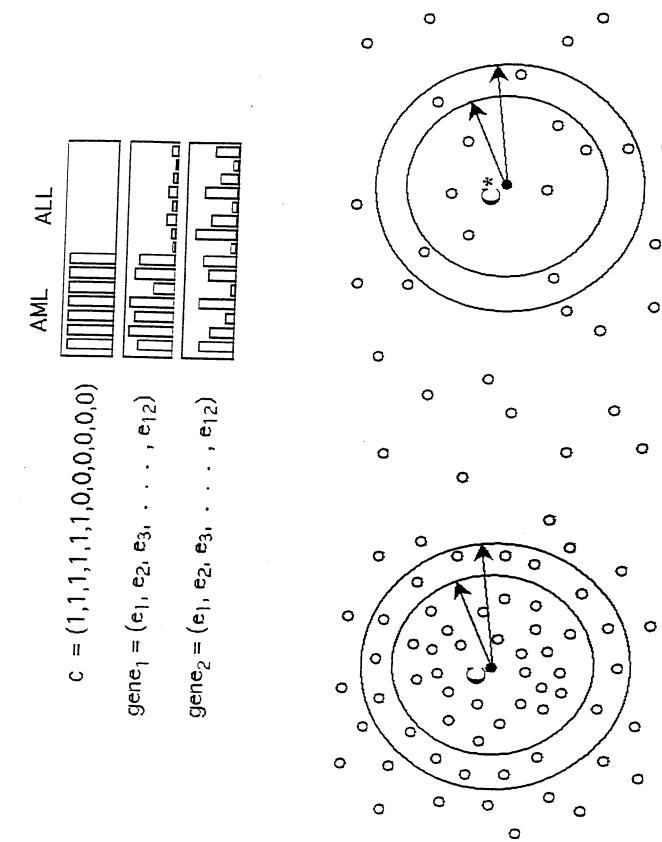
Todd R. Golub, et al.

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Figure 1B



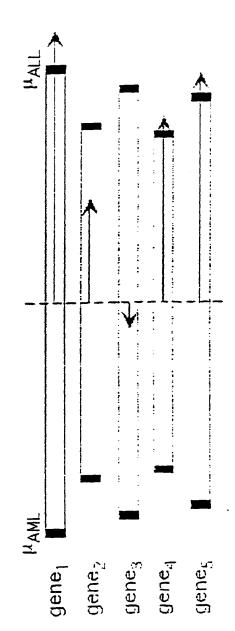
Docket No.: Title

Inventors:

2825.1018-010 "Methods for Classifying ..." Todd R. Golub, *et al*.

Weight	1.31	W.	~- ±	7 €	17.5	

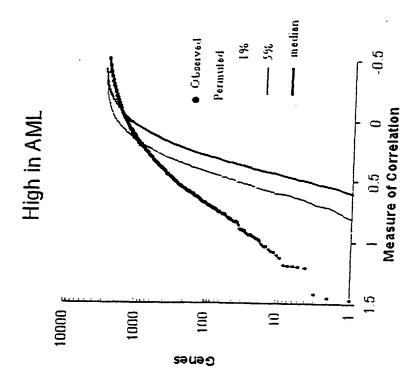
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Docket No.:

2825.1018-010
"Methods for Classifying ..."
Todd R. Golub, et al.

Inventors:



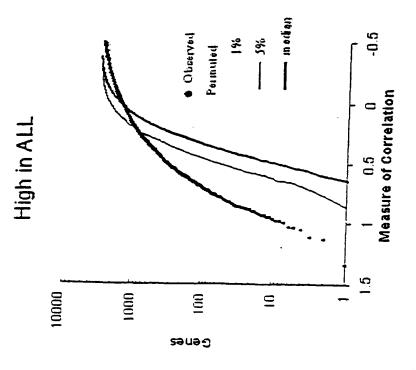
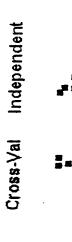
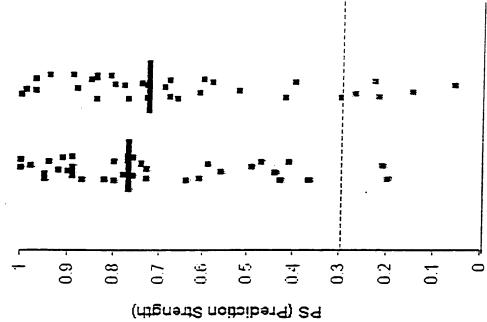


Figure 2

Dogiet No.: Inventors:

2825.1018-010
"Methods for Classifying ..."
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"Methods for Classifying ...'
Inventors: Todd R. Golub, *et al.*

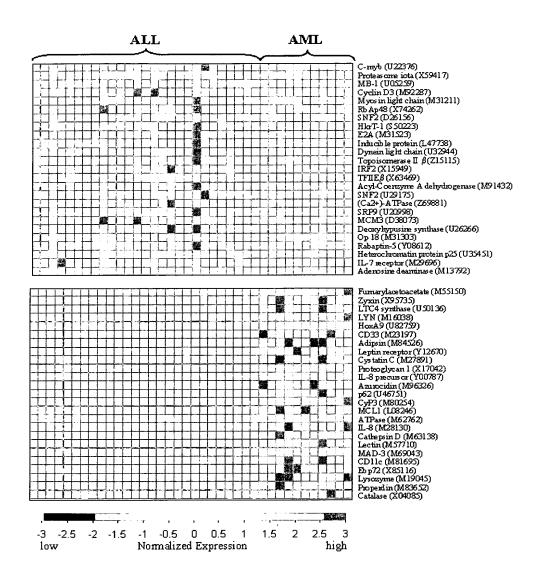
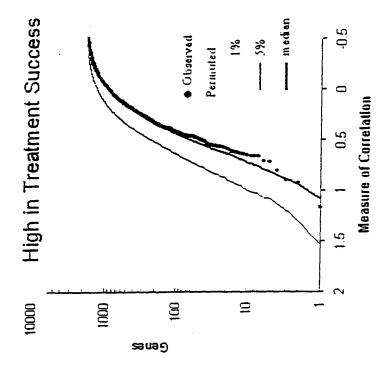
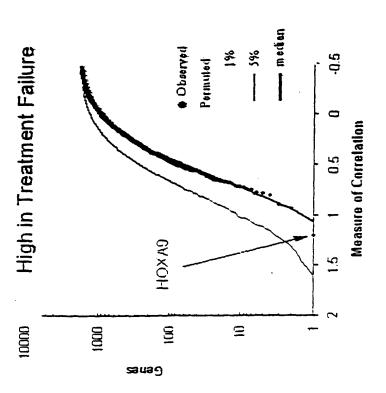


FIG. 3B

2825.1018-010 Docket No.:

"Methods for Classifying ..." Todd R. Golub, *et al*. Inventors:

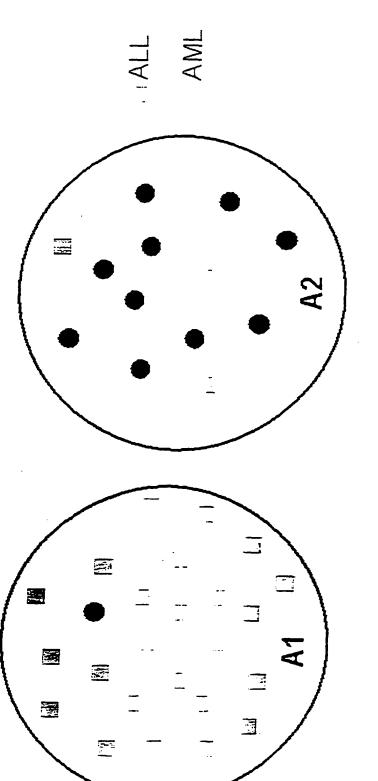




Pigure 4

Docket No.:

2825.1018-010 "Methods for Classifying ..." Todd R. Golub, *et al*. Title: Invente



Docket No.:

Inventors:

2825.1018-010

"Methods for Classifying ... Todd R. Golub, *et al*.

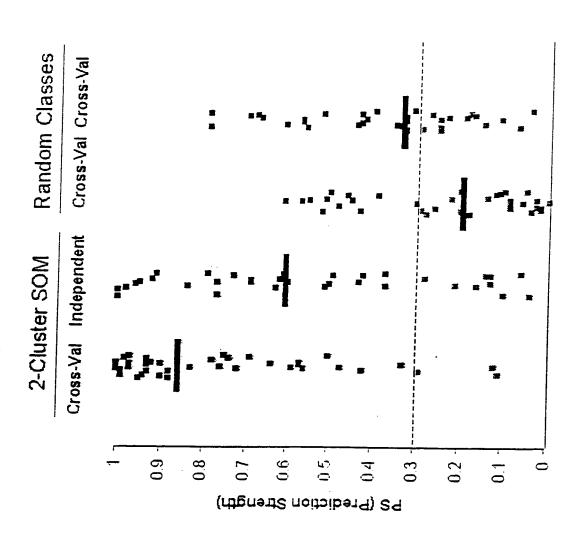


Figure 5B

Docket No.: Title: inventors: 2825.1018-010 "Methods for Classifyin Todd R. Golub, *et al*.

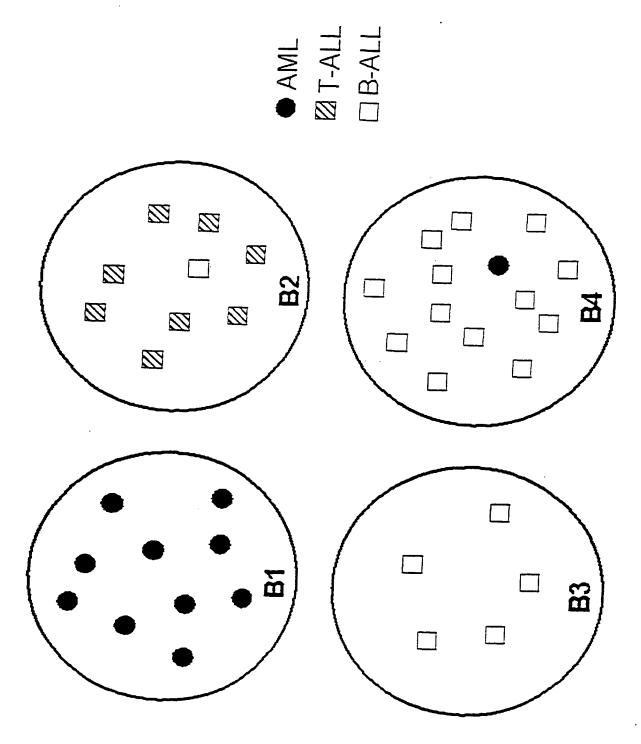


Figure 50

ocket No.: Itle: Inventors: 2825.1018-010

"Methods for Classifying Todd R. Golub, et al.

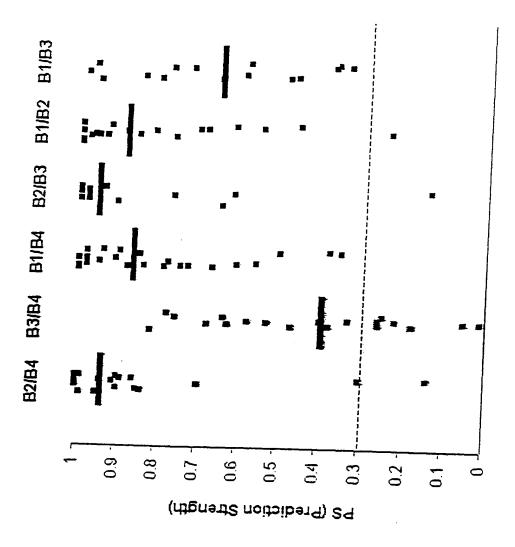


Figure 5D

Deket No.: 2825.1018-010

"Methods for Classifying ...'

Inventors: Todd R. Golub, et al.

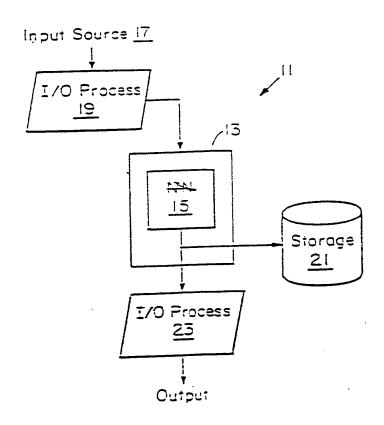


Figure 6

Docket No.:
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2825.1018-010

"Methods for Classifying ..."

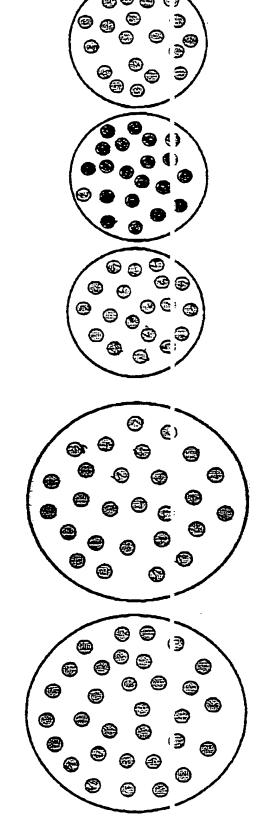
Todd R. Golub, et al.

Example of Self-Organizing Map Class Discovery: Lymphoma Large B-Cell and Follicular

Sample collection;

39 large B-Cell + 20 Follicular

Discovered Classes:



@ @ ()

🌒 🕲 Large B-Cell

Follicular

F18. 7

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2825.1018-010

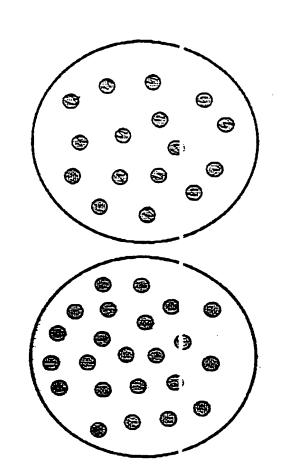
"Methods for Classifying Todd R. Golub, *et al*.

Example of Self-Organizing Map Class Discovery: Brain Glioma and Medulloblastoma

Sample collection:

24 Medulloblastomas + 15 Gliomas

Discovered Classes;



Medulloblastoma

Glioma

Fig. 8

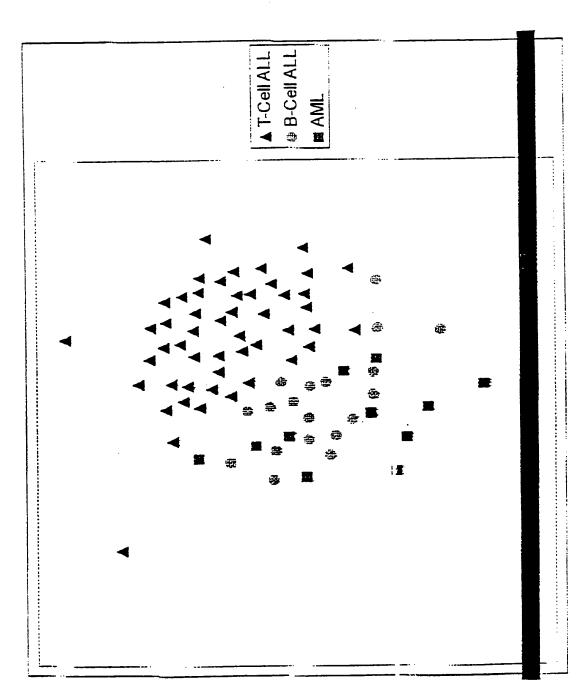
2825.1018-010

tle: "Me nventors: Todo

"Methods for Classifying Todd R. Golub, et al.

Multidimensional Scaling of Leukemia Samples

(431 genes, 15-fold, delta > 1500, thres=100, ceil=16,000)



F18. 9

Hierarchy of Problems in Molecular Class Prediction

Example:

Difficulty: Gene Markers: Error:

Problem:

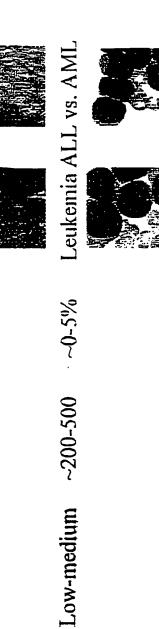
cket No.: 2825.1018-010

"Methods for Classifying ..."

Todd R. Golub, et al.

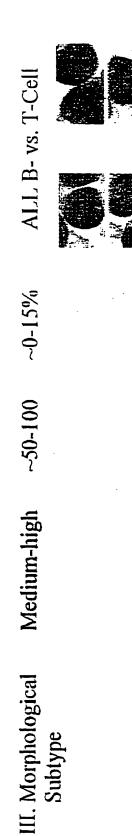
	ckei	IN
Ţ		
In.	onto	rs:

Normal vs. Renal Carcinoma %0~ ~1000-2000 Low Normal vs. Abnormal I. Tissue or Cell Type



II. Morphological

Type





~1-20

High

IV. Treatment Outcome

Drug Sensitivity

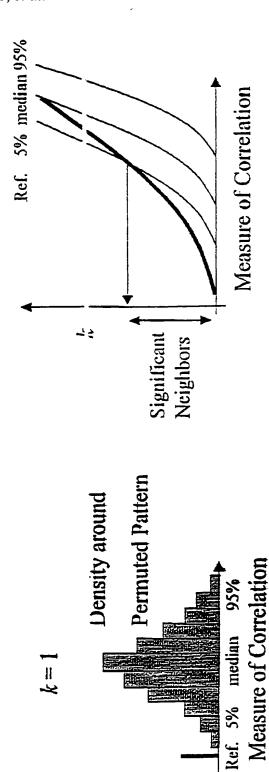
F1g. 10

Neighborhood Analysis: Assessing Statistical Significance of

Docket No.:
itle:
nventors:

2825.1018-010
"Methods for Classifying
Todd R. Golub, et al.

Permuted Pattern Neighborhood 0 0 0 Gene-Class Correlations 0 O ٥ Class Pattern Neighborhood 0 0 0 0 0



Freq.

Fig. 1